



TORQ Analysis of Cleaners of Vehicles and Equipment to Landscaping and Groundskeeping Workers

INPUT SECTION:

Transfer	Title	O* NET	Filters		
From Title:	Cleaners of Vehicles and Equipment	53-7061.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Landscaping and Groundskeeping Workers	37-3011.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

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Ability TORQ				Skills TORQ				Knowledge TORQ			
Level			78	Level			78	Level			86
Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Static Strength	48	22	56	Equipment Maintenance	52	5	74	No Knowledge Upgrades Required!			
Arm-Hand Steadiness	42	12	65								
Visualization	41	15	50								
Selective Attention	42	14	50								
Oral Comprehension	44	7	56								
Multilimb Coordination	50	6	65								
Oral Expression	41	6	50								
Manual Dexterity	42	5	56								
Trunk Strength	44	3	50								
Control Precision	48	2	59								
Problem Sensitivity	37	2	50								
Speech Clarity	34	2	50								

LEVEL and IMPT (IMPORTANCE) refer to the Target Landscaping and Groundskeeping Workers. GAP refers to level difference between Cleaners of Vehicles and Equipment and Landscaping and Groundskeeping Workers.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50



Description	Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers	Importance
Arm-Hand Steadiness	30	42	65
Multilimb Coordination	44	50	65
Control Precision	46	48	59
Oral Comprehension	37	44	56
Manual Dexterity	37	42	56
Static Strength	26	48	56
Near Vision	42	42	56
Extent Flexibility	48	42	53
Speech Recognition	34	34	53
Oral Expression	35	41	50
Problem Sensitivity	35	37	50
Visualization	26	41	50
Selective Attention	28	42	50
Trunk Strength	41	44	50
Speech Clarity	32	34	50
Skill Level Comparison - Abilities with importance scores over 69			
Description	Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers	Importance
Equipment Maintenance	47	52	74
Knowledge Level Comparison - Knowledge with importance scores over 69			
Description	Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers	Importance

Experience & Education Comparison					
Related Work Experience Comparison			Required Education Level Comparison		
Description	Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers	Description	Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	0%	0%	Professional Degree	0%	0%
6-8 years	0%	4%	Post-Masters Cert	0%	0%
4-6 years	28%	4%	Master's Degree	0%	0%
2-4 years	0%	2%	Post-Bachelor Cert	0%	0%
1-2 years	3%	21%	Bachelors	0%	4%
6-12 months	6%	16%	AA or Equiv	21%	1%
3-6 months	1%	2%	Some College	1%	0%
1-3 months	5%	3%	Post-Secondary Certificate	5%	15%
0-1 month	17%	2%	High School Diploma or GED	26%	25%
None	36%	37%	No HSD or GED	45%	52%



Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers
Most Common Educational/Training Requirement:	
Short-term on-the-job training	Short-term on-the-job training
Job Zone Comparison	
<p>1 - Job Zone One: Little or No Preparation Needed</p> <p>No previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a cashier even if he/she has never worked before.</p> <p>These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.</p> <p>Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.</p>	<p>1 - Job Zone One: Little or No Preparation Needed</p> <p>No previous work-related skill, knowledge, or experience is needed for these occupations. For example, a person can become a cashier even if he/she has never worked before.</p> <p>These occupations may require a high school diploma or GED certificate. Some may require a formal training course to obtain a license.</p> <p>Employees in these occupations need anywhere from a few days to a few months of training. Usually, an experienced worker could show you how to do the job.</p>

Tasks

Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers
Core Tasks	Core Tasks
<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. • Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects. • Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles). • Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles. • Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things. 	<p>Generalized Work Activities:</p> <ul style="list-style-type: none"> • Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials. • Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles). • Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects. • Operating Vehicles, Mechanized Devices, or Equipment - Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft. • Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
Specific Tasks	Specific Tasks
<p>Occupation Specific Tasks:</p> <ul style="list-style-type: none"> • Apply paints, dyes, polishes, reconditioners, waxes, and masking materials to vehicles in order to preserve, protect, or restore color and condition. • Clean and polish vehicle windows. • Clean the plastic work inside cars, using paintbrushes. • Collect and test samples of cleaning solutions and vapors. • Connect hoses and lines to pumps and other equipment. 	<p>Occupation Specific Tasks:</p> <ul style="list-style-type: none"> • Advise customers on plant selection and care. • Attach wires from planted trees to support stakes. • Build forms, and mix and pour cement to form garden borders. • Care for artificial turf fields, periodically removing the turf and replacing cushioning pads, and vacuuming and disinfecting the turf after use to prevent the growth of harmful bacteria. • Care for established lawns by mulching



- Disassemble and reassemble machines or equipment; or remove and reattach vehicle parts and trim, using hand tools.
- Drive vehicles to and from workshops and/or customers' workplaces or homes.
- Fit boot spoilers, side skirts, and mud flaps to cars.
- Inspect parts, equipment, and vehicles for cleanliness, damage, and compliance with standards or regulations.
- Lubricate machinery, vehicles, and equipment, and perform minor repairs and adjustments, using hand tools.
- Maintain inventories of supplies.
- Mix cleaning solutions, abrasive compositions, and other compounds, according to formulas.
- Monitor operation of cleaning machines, and stop machines or notify supervisors when malfunctions occur.
- Pre-soak or rinse machine parts, equipment, or vehicles by immersing objects in cleaning solutions or water, manually or using hoists.
- Press buttons to activate cleaning equipment or machines.
- Rinse objects and place them on drying racks; or use cloth, squeegees, or air compressors to dry surfaces.
- Scrub, scrape, or spray machine parts, equipment, or vehicles, using scrapers, brushes, clothes, cleaners, disinfectants, insecticides, acid, abrasives, vacuums, and hoses.
- Sweep, shovel, or vacuum loose debris and salvageable scrap into containers; and remove containers from work areas.
- Transport materials, equipment, or supplies to and from work areas, using carts or hoists.
- Turn valves or disconnect hoses in order to eliminate water, cleaning solutions, or vapors from machinery or tanks.
- Turn valves or handles on equipment in order to regulate pressure and flow of water, air, steam, or abrasives from sprayer nozzles.

Detailed Tasks

Detailed Work Activities:

- apply cleaning solvents
- clean equipment or machinery
- collect samples for testing
- evaluate equipment for compliance with standards
- examine equipment to detect disrepair
- inspect equipment or vehicles for cleanliness or damage
- load, unload, or stack containers, materials, or products
- lubricate machinery, equipment, or parts

- Care for established lawns by mowing, aerating, weeding, grubbing and removing thatch, and trimming and edging around flower beds, walks, and walls.
- Care for natural turf fields, making sure the underlying soil has the required composition to allow proper drainage and to support the grasses used on the fields.
- Decorate gardens with stones and plants.
- Follow planned landscaping designs to determine where to lay sod, sow grass, or plant flowers and foliage.
- Gather and remove litter.
- Haul or spread topsoil, and spread straw over seeded soil to hold soil in place.
- Install rock gardens, ponds, decks, drainage systems, irrigation systems, retaining walls, fences, planters, and/or playground equipment.
- Maintain and repair tools, equipment, and structures such as buildings, greenhouses, fences, and benches, using hand and power tools.
- Maintain irrigation systems, including winterizing the systems and starting them up in spring.
- Mark design boundaries, and paint natural and artificial turf fields with team logos and names before events.
- Mix and spray or spread fertilizers, herbicides, or insecticides onto grass, shrubs, and trees, using hand or automatic sprayers or spreaders.
- Mow and edge lawns, using power mowers and edgers.
- Operate powered equipment such as mowers, tractors, twin-axle vehicles, snow blowers, chain-saws, electric clippers, sod cutters, and pruning saws.
- Plan and cultivate lawns and gardens.
- Plant seeds, bulbs, foliage, flowering plants, grass, ground covers, trees, and shrubs, and apply mulch for protection, using gardening tools.
- Provide proper upkeep of sidewalks, driveways, parking lots, fountains, planters, burial sites, and other grounds features.
- Prune and trim trees, shrubs, and hedges, using shears, pruners, or chain saws.
- Rake, mulch, and compost leaves.
- Shovel snow from walks, driveways, and parking lots, and spread salt in those areas.
- Trim and pick flowers, and clean flower beds.
- Use hand tools such as shovels, rakes, pruning saws, saws, hedge and brush trimmers, and axes.
- Use irrigation methods to adjust the amount of water consumption and to prevent waste.
- Water lawns, trees, and plants, using



- maintain inventory of supplies
- maintain or repair cargo or passenger vehicle
- maintain production or work records
- maintain records, reports, or files
- make minor repairs to mechanical equipment
- mix paint, ingredients, or chemicals, according to specifications
- monitor equipment or machine operation to detect problems
- move or fit heavy objects
- operate cleaning equipment
- operate hoist, winch, or hydraulic boom
- requisition stock, materials, supplies or equipment
- use hand or power tools
- use two-way radio or mobile phone

portable sprinkler systems, hoses, or watering cans.

Detailed Tasks

Detailed Work Activities:

- advise clients or customers
- construct, erect, or repair wooden frameworks or structures
- drive truck with capacity greater than 3 tons
- finish concrete surfaces
- follow horticulture irrigation techniques
- maintain physical building or grounds of property
- mix paint, ingredients, or chemicals, according to specifications
- move or fit heavy objects
- operate tractor with accessories or attachments
- plant, cultivate, or harvest crops, including aquaculture
- prepare site or surfaces for concrete or masonry work
- repair and maintain grounds keeping equipment and tools
- resolve landscaping problems
- use chain saws
- use hand or power tools
- use herbicides, fertilizers, pesticides or related products
- use plant disease control techniques
- use plant or crop transplant techniques
- use portable hand spray equipment
- use power mower
- use truck-mounted hydraulic lifts or other accessories

Labor Market Comparison

Description	Cleaners of Vehicles and Equipment	Landscaping and Groundskeeping Workers	Difference
Median Wage	\$ 20,080	\$ 24,450	\$ 4,370
10th Percentile Wage	\$ 15,160	\$ 15,870	\$ 710
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 24,560	\$ 29,940	\$ 5,380
90th Percentile Wage	\$ 29,230	\$ 35,600	\$ 6,370
Mean Wage	\$ 21,240	\$ 25,000	\$ 3,760
Total Employment - 2007	1,040	4,040	3,000
Employment Base - 2006	1,114	5,237	4,123



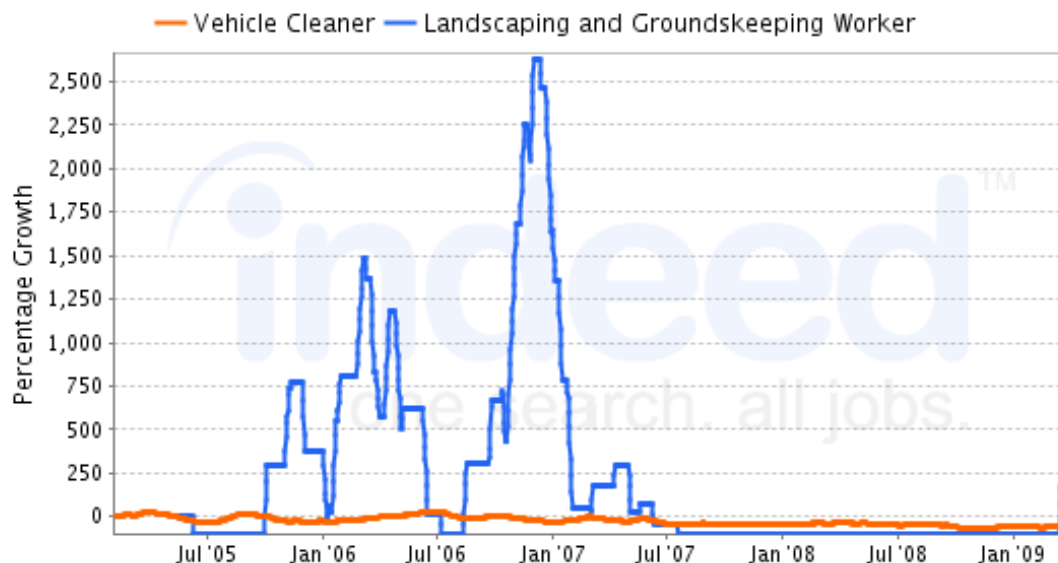
Projected Employment - 2016	1,102	5,850	4,748
Projected Job Growth - 2006-2016	-1.1 %	11.7 %	12.8 %
Projected Annual Openings - 2006-2016	43	130	87

National Job Posting Trends

Trend for Cleaners of Vehicles and Equipment

Trend for
Landscaping
and
Groundskeeping
Workers

Job Trends from Indeed.com

Data from [Indeed](http://Indeed.com)

Recommended Programs

Landscaping and Groundskeeping

Landscaping and Groundskeeping. A program that prepares individuals to manage and maintain indoor and/or outdoor ornamental and recreational plants and groundcovers and related conceptual designs established by landscape architects, interior designers, enterprise owners or managers, and individual clients. Includes instruction in applicable principles of horticulture, gardening, plant and soil irrigation and nutrition, turf maintenance, plant maintenance, equipment operation and maintenance, personnel supervision, and purchasing.

Institution	Address	City	URL
University of Maine		Orono	www.umaine.edu/
University of Maine		Orono	www.umaine.edu/
Unity College	90 Quaker Hill Road	Unity	www.unity.edu

Turf and Turfgrass Management

Turf and Turfgrass Management. A program that focuses on turfgrasses and related groundcover plants and prepares individuals to develop ornamental or recreational grasses and related products; plant, transplant, and manage grassed areas; and to produce and store turf used for transplantation. Includes instruction in applicable plant sciences, genetics of grasses, turf science, use analysis, turf management, and related economics.



No schools available for the program

Maine Statewide Promotion Opportunities for Cleaners of Vehicles and Equipment

O*NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
53-7061.00	Cleaners of Vehicles and Equipment	100	1	1,040	\$20,080.00	\$0.00	-1%	43
37-2011.00	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	82	1	9,170	\$23,520.00	\$3,440.00	5%	241
51-6021.00	Pressers, Textile, Garment, and Related Materials	82	1	130	\$20,910.00	\$830.00	-12%	1
37-3011.00	Landscaping and Groundskeeping Workers	81	1	4,040	\$24,450.00	\$4,370.00	12%	130
45-4022.00	Logging Equipment Operators	80	1	1,390	\$29,280.00	\$9,200.00	4%	46
53-7081.00	Refuse and Recyclable Material Collectors	80	2	930	\$22,780.00	\$2,700.00	1%	37
51-6041.00	Shoe and Leather Workers and Repairers	79	2	90	\$25,030.00	\$4,950.00	-19%	3
51-9198.00	Helpers--Production Workers	79	1	1,490	\$22,260.00	\$2,180.00	-10%	37
51-6031.00	Sewing Machine Operators	78	1	1,080	\$22,440.00	\$2,360.00	-8%	10
51-4193.00	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	77	2	120	\$32,160.00	\$12,080.00	16%	5
51-9192.00	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	77	1	40	\$22,640.00	\$2,560.00	-31%	2
47-4051.00	Highway Maintenance Workers	77	2	2,210	\$28,790.00	\$8,710.00	7%	60
53-7062.00	Laborers and Freight, Stock, and Material Movers, Hand	77	2	8,320	\$22,130.00	\$2,050.00	-2%	274
37-3012.00	Pesticide Handlers, Sprayers, and Applicators, Vegetation	77	2	0	\$23,490.00	\$3,410.00	5%	4



47-2061.00	Construction Laborers	77	2	3,020	\$26,660.00	\$6,580.00	5%	46
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Top Industries for Landscaping and Groundskeeping Workers

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Landscaping services	561730	36.82%	449,188	575,491	28.12%
Self-employed workers, primary job	000601	17.30%	211,079	226,203	7.17%
Local government, excluding education and hospitals	939300	6.79%	82,877	86,862	4.81%
Self-employed workers, secondary job	000602	3.24%	39,476	39,530	0.14%
Employment services	561300	2.29%	27,944	31,057	11.14%
Elementary and secondary schools, public and private	611100	1.89%	23,031	24,414	6.00%
Lessors of real estate	531100	1.77%	21,582	23,919	10.83%
Colleges, universities, and professional schools, public and private	611300	1.62%	19,754	22,230	12.53%
Fitness and recreational sports centers	713940	1.61%	19,680	26,376	34.03%
Religious organizations	813100	1.52%	18,555	22,398	20.71%
Death care services	812200	1.37%	16,677	19,176	14.98%
Activities related to real estate	531300	1.16%	14,139	18,125	28.19%
Lawn and garden equipment and supplies stores	444200	0.84%	10,300	9,322	-9.49%
State government, excluding education and hospitals	929200	0.66%	8,034	7,930	-1.29%
Private households, primary jobs	814100	0.66%	8,015	8,384	4.60%

Top Industries for Cleaners of Vehicles and Equipment

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Other automotive repair and maintenance	811190	32.07%	118,076	151,903	28.65%
Automobile dealers	441100	21.93%	80,745	83,355	3.23%
Automotive equipment rental and leasing	532100	6.51%	23,970	27,197	13.47%
Self-employed workers, primary job	000601	6.45%	23,733	25,284	6.54%
Automotive body, paint, interior, and glass repair	811120	3.01%	11,067	12,922	16.76%
Animal slaughtering and processing	311600	2.43%	8,959	9,110	1.69%
Gasoline stations	447100	1.93%	7,121	6,375	-10.48%
Other motor vehicle dealers	441200	1.49%	5,479	7,343	34.01%
Grocery and related product wholesalers	424400	1.13%	4,160	4,548	9.35%

Employment services	561300	1.01%	3,709	4,694	26.56%
Self-employed workers, secondary job	000602	0.95%	3,514	3,498	-0.45%
Motor vehicle and motor vehicle parts and supplies merchant wholesalers	423100	0.92%	3,399	3,879	14.14%
Scheduled air transportation	481100	0.89%	3,272	3,613	10.41%
Fruit and vegetable preserving and specialty food manufacturing	311400	0.86%	3,150	2,856	-9.33%
Other food manufacturing	311900	0.83%	3,054	3,203	4.85%